



Network Computing Darkreading

Welcome Guest

[Login to your account](#)[Advertise](#)[About Us](#)

SECTIONS ▼



- [Authors](#)
- [Slideshows](#)
- [Video](#)
- [Reports](#)
- [White Papers](#)
- [Events](#)
- [Black Hat](#)
- [Attacks/Breaches](#)
 - [App Sec](#)
 - [Cloud](#)
 - [Endpoint](#)
 - [Mobile](#)
 - [Perimeter](#)
 - [Risk](#)
 - [Operations](#)
 - [Analytics](#)
 - [Vulns/Threats](#)
 - [Threat Intelligence](#)
 - [Careers and People](#)
 - [IOT](#)

[Login to your account](#)[Register](#)[About Us](#)[Advertise](#)

- [Facebook](#)
- [Twitter](#)
- [LinkedIn](#)
- [Google+](#)
- [RSS](#)



LEARN
MORE ▶

DARKReading

Join us live at
Interop ITX

Search Dark Reading



[Analytics](#)
[Attacks / Breaches](#)
[App Sec](#)
[Careers & People](#)
[Cloud](#)
[Endpoint](#)
[IoT](#)
[Mobile](#)
[Operations](#)
[Perimeter](#)
[Risk](#)
[Threat Intelligence](#)
[Vulns / Threats](#)

Attacks/Breaches

1/8/2018
05:45 PM



Jai Vijayan

News

Connect Directly



0 comments

[Comment
Now](#)
[Login](#)


50%50%

[Like](#)
[Tweet](#)
[Share](#)
[G+](#)

New Cryptocurrency Mining Malware Has Links to North Korea

A malware tool for stealthily installing software that mines the Monero virtual currency looks like the handiwork of North Korean threat actors, AlienVault says.

A security vendor has found another clue that North Korea may be turning to illegal cryptocurrency mining as a way to bring cash into the nation's economy amid tightening international sanctions.

[AlienVault](#) on Monday said it had recently discovered malware that is designed to stealthily install a miner for Monero, a Bitcoin-like cryptocurrency, on end-user systems and to send any mined coins to the Kim Il Sung University (KSU) in Pyongyang.

The malicious installer appears to have been created just before Christmas 2017 and is designed to install xmrig, an open source miner for Monero.

The link to the university itself doesn't appear to be working, however, meaning the software cannot send any mined coins back to its authors. The malware itself appears pretty basic, and the inclusion of the KSU server in the code could simply be a false flag to trick security researchers. Even so, the malware is consistent with previous similar campaigns tied to North Korea, AlienVault said.

"Cryptocurrencies could provide a financial lifeline to a country hit hard by sanctions," the vendor said. "Therefore it's not surprising that universities in North Korea have shown a clear interest in cryptocurrencies."

A cryptocurrency mining tool like xmrig is basically designed to harness the processing power of a computer in order to verify transactions in a blockchain. Users who put their computers to work mining virtual currencies such as Bitcoin and Monero typically receive small monetary rewards for allowing their hardware to be used for the purpose.

Crypto mining is legitimate activity. Some, like Coinhive, even distribute miners to website operators so users can run it in their browsers in exchange for an ad-free experience. In recent years, though, cybercriminals have increasingly begun hijacking computers in order to mine cryptocurrency for illegal profit.

In a [report](#) last September, IBM said that between January and July 2017 it had seen a six-fold increase in CPU mining attacks involving the use of malware for installing virtual currency mining tools against its customers. The tools typically were embedded in fake image files that were hosted on infiltrated servers running WordPress or

Joomla. Most of the attacks that IBM analyzed were designed to target virtual currencies such as Monero, whose CryptoNight algorithm can run on ordinary PCs and servers compared to the specialized hardware required for Bitcoin mining.



Sponsored Content [Forrester's Report] The State of AppSec: 2018 & Beyond

In 2017, applications rolled out the welcome mat to malicious hackers, topping the list of successful external attack targets. Why?

Brought to you by WhiteSource Software

Last September, Kaspersky Lab [reported](#) finding two relatively large botnets comprised of computers infected with malware for installing legitimate cryptocurrency miners on them. The security vendor estimated that a 4,000-computer botnet used for cryptocurrency mining was netting its operators up to \$30,000 a month, while a bigger 5,000-computer botnet was garnering its operators some \$200,000 a month.

"As the price of crypto-currencies increase, so do the incentives to infect people with mining malware," says Chris Doman, security researcher at AlienVault. "Monero is becoming a popular choice as it is both more anonymous and more profitable to mine with malware."

Security researchers have found plenty of clues in recent months to suggest that Korea-linked threat actors like the Lazarus Group and others are actively engaged in cryptocurrency mining. Earlier this month, [Bloomberg](#) reported an incident in which a North Korea threat group called Andariel hijacked a server belonging to a South Korean organization and used it to mine about 70 Monero coins.

The Lazarus group has been caught doing Monero mining on compromised networks and attacking Bitcoin exchanges, Doman says. There have also been several public reports of North Korean universities looking into mining cryptocurrencies, Doman says. So while it is hard to say with complete certainty if the malware that AlienVault discovered is the work of North Korean actors, chances are high it is, he notes.

"The main takeaway for me is that this fits into the larger picture of North Korea and cryptocurrencies."

Related Content:

- [Cybercriminals Employ 'Driveby' Cryptocurrency Mining](#)
- [New 'Bondnet' Botnet Mines Cryptocurrencies](#)
- [Russian Developer Snuck Cryptocurrency Mining into Android Apps](#)
- [5 Reasons Why the CISO Is a Cryptocurrency Skeptic](#)

Jai Vijayan is a seasoned technology reporter with over 20 years of experience in IT trade journalism. He was most recently a Senior Editor at Computerworld, where he covered information security and data privacy issues for the publication. Over the course of his 20-year ... [View Full Bio](#)

[Comment](#) | [Email This](#) | [Print](#) | [RSS](#)

More Insights

Webcasts

TI + Orchestration = OODA Loop Acceleration

Cybersecurity Crash Course - Session 7: Security For IoT

More Webcasts

White Papers

8 Nation-State Hacking Groups to Watch in 2018**The Main AppSec Tech to Adopt in 2018****More White Papers
Reports**[\[Forrester's Report\] The State of Application Security: 2018 & Beyond](#)[\[Strategic Security Report\] Cloud Security's Changing Landscape](#)**More Reports****Comments**[Newest First](#) | [Oldest First](#) | [Threaded View](#)[Be the first to post a comment regarding this story.](#)

Sponsored by

Related Content[RESOURCES](#)[BLOG](#)**Q2 Malware Review**

Between the second quarter of 2017, PhishMe Intelligence completed analyses of 616 sets of phishing emails delivering ...

Enterprise Phishing Susceptibility Report

Phishing attacks remain the largest challenge to organizations because they target all employees.

Techniques for Dealing with Ransomware, BEC, and Spearphishing

IT decision makers across many industry verticals were surveyed on their experiences with phishing and malware ...

The Total Economic Impact of PhishMe's Human Phishing Defense

PhishMe recently commissioned Forrester Consulting to conduct a Total Economic Impact™ (TEI) study and examine the ...

Data Breaches and the Great Security Disconnect

The growing sophistication and fast-evolving nature of cyberthreats have made data breach preparedness a critical issue for enterprises.

[Hot Topics](#)[Editors' Choice](#)

**5
Threats from Mobile Ransomware & Banking
Malware Are Growing**

Jai Vijayan, Freelance writer, 2/26/2018

**2
Security Starts with the User Experience**

Peter Hesse, Chief Security Officer at 10Pearls,
2/27/2018

**1
SAML Flaw Lets Hackers Assume Users'
Identities**

Kelly Sheridan, Associate Editor, Dark Reading,
2/27/2018



[Subscribe to Newsletters](#)

[Live Events](#)[Webinars](#)

**Why Hackers Attack: Understanding Threats & Motivations for Online
Intrusion**

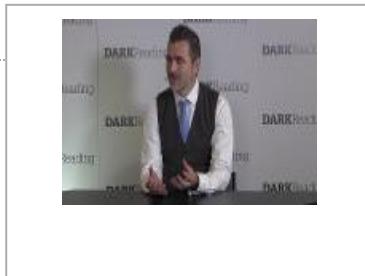
Your Toughest AppSec Questions Answered

Cybersecurity Crash Course - Session 7: Security For IoT

[Webinar Archives](#)

[White Papers](#)

8 Nation-State Hacking Groups to Watch in 2018

Dark Reading Tech Digest: IT Skills Shortage**GDPR - Friend or Foe?****Minimize App Security Risks With DevOps****The Main AppSec Tech to Adopt in 2018****More White Papers****Video**Write a Caption, Win a Starbucks Card! [Click Here](#)**How Security Metrics Fail – Attacking Do**



Latest Comment: [I tried to tell him he was taking on too much.](#)

Cartoon Archive

Current Issue



How to Cope with the IT Security Skills Shortage

Most enterprises don't have all the in-house skills they need to meet the rising threat from online attackers. Here are some tips on ways to beat the shortage.

By Ericka Chickowski
March 2, 2018
Why Enterprises Are in Such High Demand, and How They're Addressing the Shortage
8 Reasons Why Cybersecurity talent Shortfall Must End
How to...
Executive Guide to Navigating the Cybersecurity Skills Shortage
Is Security & Ops Ready to Roll a Bridge of Boxes? -
Executive Guide to Navigating the Cybersecurity Skills Shortage

How to Cope with the IT Security Skills Shortage

Most enterprises don't have all the in-house skills they need to meet the rising threat from online attackers. Here are some tips on ways to beat the shortage.

Download This Issue!

[Back Issues](#) | [Must Reads](#)

[Flash Poll](#)

Has the U.S. political climate caused you to make infosecurity-related changes to your disaster recovery/business continuity plans?

- Yes
- No
- No but we are considering it
- Still waiting for cybersecurity guidance from Trump admin EO
- Don't know

Other (Please explain in the comments)

[Submit](#)

All Polls



Reports

[Strategic Security Report] Navigating the Threat Intelligence Maze

Most enterprises are using threat intel services, but many are still figuring out how to use the data they're collecting. In this Dark Reading survey we give you a look at what they're doing today - and where they hope to go.

[Download Now!](#)

The State of Ransomware

0 comments

Twitter Feed

[Strategic Security Report] How Enterprises Are Attacking the IT Security Problem

0 comments

The Impact of a Security Breach 2017

0 comments

[More Reports](#)



Erik Nonaka @eneconsulting

New @Kaspersky #Spam and #Phishing #Report cites #banks, payment systems and #online #retail as top 3 phishing #threat targets of 2017 #netsec #cybersec via @DarkReading klab.so/78747F



15m



Martial Gervaise @argevise

Reviewing 8 #nationstate #hacker groups to keep an eye on in 2018 via our #cybersec expert #BrianBartholomew #turla #scarcraft #apt @kellysheridan @darkreading #NetSec #infosec kas.pr/3c15 via @kaspersky

1h

親孝行垢 Retweeted



ipfconline1 @ipfconline1

How Innovative Companies Lock Down Databuff.ly/2pO4Dzr by @JustinSomaini v/ @DarkReading#BigData #CyberSecurity #MachineLearning #Cognitive

Bug Report



Enterprise Vulnerabilities
From DHS/US-CERT's National Vulnerability Database

[CVE-2017-0290](#)

Published: 2017-05-09

NScript in mpengine in Microsoft Malware Protection Engine with Engine Version before 1.1.13704.0, as used in Windows Defender and other products, allows remote attackers to execute arbitrary code or cause a denial of service (type confusion and application crash) via crafted JavaScript code within ...

[CVE-2016-10369](#)

Published: 2017-05-08

unixsocket.c in lxterminal through 0.3.0 insecurely uses /tmp for a socket file, allowing a local user to cause a denial of service (preventing terminal launch), or possibly have other impact (bypassing terminal access control).

[CVE-2016-8202](#)

Published: 2017-05-08

A privilege escalation vulnerability in Brocade Fibre Channel SAN products running Brocade Fabric OS (FOS) releases earlier than v7.4.1d and v8.0.1b could allow an authenticated attacker to elevate the privileges of user accounts accessing the system via command line interface. With affected version...

[CVE-2016-8209](#)

Published: 2017-05-08

Improper checks for unusual or exceptional conditions in Brocade NetIron 05.8.00 and later releases up to and including 06.1.00, when the Management Module is continuously scanned on port 22, may allow attackers to cause a denial of service (crash and reload) of the management module.

[CVE-2017-0890](#)

Published: 2017-05-08

Nextcloud Server before 11.0.3 is vulnerable to an inadequate escaping leading to a XSS vulnerability in the search module. To be exploitable a user has to write or paste malicious content into the search dialogue.

DARKReading

[About Us](#)[Twitter](#)[Contact Us](#)[Facebook](#)[Sitemap](#)[LinkedIn](#)[Reprints](#)[Google+](#)[RSS](#)

[Terms of Service](#) | [Privacy Statement](#) | [Legal Entities](#) | Copyright © 2018 UBM, All rights reserved**Technology Group**

Black Hat	Enterprise Connect	ICMI	Network Computing
Content Marketing Institute	GDC	InformationWeek	No Jitter
Content Marketing World	Gamasutra	INsecurity	Service Management World
Dark Reading	HDI	Interop ITX	VRDC

COMMUNITIES SERVED

Content Marketing
Enterprise IT
Enterprise Communications
Game Development
Information Security
IT Services & Support

WORKING WITH US

- [Advertising Contacts](#)
- [Event Calendar](#)
- [Tech Marketing](#)
- [Solutions](#)
- [Contact Us](#)
- [Licensing](#)